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OM protein - protein search, using sw model

Run on: July 18, 2001, 15:54:31 ; Search time 13.86 Seconds
(without alignments)
1110.426 Million cell updates/sec

Title: US-09-587-111-5
Perfect score: 4004
Sequence: 1 MTSPSSPVFRLETLDDGGE.....EDEDGASEENVFVQLQSN 764

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 193259 seqs, 20144635 residues

Total number of hits satisfying chosen parameters: 193259

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1645.5	41.1	839	4	US-09-197-636-2
2	1644.5	41.1	839	4	US-09-197-636-8
3	1638.5	40.9	839	4	US-09-197-636-4
4	151	3.8	1839	2	US-09-172-977-4
5	150	3.7	1088	4	US-09-083-059-2
6	148	3.7	843	2	US-09-112-096-15
7	146	3.6	1095	4	US-09-065-474-139
8	138.5	3.5	352	3	US-09-031-485-23
9	138.5	3.5	1745	2	US-08-847-429A-33
10	138.5	3.5	1745	2	US-08-847-429A-33
11	138.5	3.5	1745	3	US-09-065-474-33
12	137	3.4	1533	1	US-08-623-679-9
13	137	3.4	1533	3	US-08-933-774-9
14	131	3.3	303	2	US-09-031-485-23
15	131	3.3	303	2	US-08-847-429A-23
16	131	3.3	303	3	US-09-065-474-23
17	129	3.2	348	2	US-09-031-485-28
18	129	3.2	348	2	US-08-847-429A-28
19	129	3.2	348	2	US-09-065-474-28
20	127	3.2	300	2	US-08-897-340-32
21	127	3.2	300	4	US-09-252-329-32
22	126	3.1	551	3	US-08-699-103B-25
23	125.5	3.1	787	4	US-09-188-930-334
24	125.5	3.1	1139	1	US-08-537-210A-4
25	125.5	3.1	1139	4	US-09-113-825-4
26	125.5	3.1	2703	1	US-08-185-432-19
27	123.5	3.1	191	2	US-09-031-485-20

28	123.5	3.1	191	2	US-08-847-429A-20	Sequence 20, Appl
29	123.5	3.1	191	3	US-09-065-474-20	Sequence 20, Appl
30	122	3.0	741	3	US-08-943-956A-2	Sequence 2, Appl
31	120.5	3.0	302	2	US-09-031-485-38	Sequence 38, Appl
32	120.5	3.0	302	2	US-08-847-429A-38	Sequence 38, Appl
33	120.5	3.0	302	3	US-09-065-474-38	Sequence 38, Appl
34	120.5	3.0	741	2	US-08-462-481-2	Sequence 2, Appl
35	120.5	3.0	741	2	US-08-436-771-2	Sequence 2, Appl
36	120.5	3.0	741	2	US-08-436-771-4	Sequence 2, Appl
37	120.5	3.0	741	2	US-08-434-998-2	Sequence 2, Appl
38	120.5	3.0	741	2	US-08-434-998-4	Sequence 2, Appl
39	120.5	3.0	741	2	US-08-487-797-2	Sequence 2, Appl
40	120.5	3.0	741	2	US-08-487-797-4	Sequence 2, Appl
41	120.5	3.0	741	2	US-08-701-005A-2	Sequence 2, Appl
42	120.5	3.0	741	2	US-08-479-895-2	Sequence 2, Appl
43	120.5	3.0	741	5	PCT-US95-02058-2	Sequence 2, Appl
44	120.5	3.0	741	5	PCT-US95-02058-4	Sequence 2, Appl
45	119.5	3.0	357	2	US-08-031-538-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-09-197-636-2
; Sequence 2, Application US/09197636
; Patent No. 6239267
GENERAL INFORMATION:
APPLICANT: DUCKWORTH, DAVID
APPLICANT: HAYES, PHILIP
APPLICANT: MEADOWS, HELEN
APPLICANT: DAVIS, JOHN
TITLE OF INVENTION: NOVEL COMPOUNDS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ratner & Prestia
STREET: P.O. Box 980
CITY: Valley Forge
STATE: PA
COUNTRY: US
ZIP: 19482-0980
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/197,636
FILING DATE: 23-NOV-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 9805137.8
FILING DATE: 12-MAR-1998
APPLICATION NUMBER: UK 9815791.0
FILING DATE: 21-JUL-1998
APPLICATION NUMBER: UK 9819278.4
FILING DATE: 03-SEP-1998
ATTORNEY/AGENT INFORMATION:
NAME: Prestia, Paul F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-30075
TELECOMMUNICATION INFORMATION:
TELEPHONE: 601-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 839 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-197-636-2

Query Match	41.1%;	Score 1645.5;	DB 4;	Length 839;
Best Local Similarity	48.5%;	Pred. No. 9.1e-147;		
Matches 344;	Conservative 121;	Mismatches 200;	Indels 45;	Gaps 113;

Oy	74	FDORLFMAVSRGVPEDDLAGPELSTKSTSKLTDSSETGSGTKCLMKAVNLKQSVNA	1333
Db	113	YDRSRIFEAVANONNCQDLESLFLEFGSKRKLTDNEKDPDCTGKTLCKMLNLHDDQNT	1722
Oy	134	CILPLQIDRPSGNDPQVLVNAOCTDDVYRGSHALHIEKRSLOCYKLLVENGANVARA	1933
Db	173	TIPLELTAIRQDTSKLELVNASTYDSYKQGTALHAIERRNMALYTLUVENGADYQAA	2322
Oy	194	CGRFPQKQOG--TCYFFGELPLSLACTKQMDVSYLLENPHQASLOATDSQNTVIAHAL	2522
Db	233	HGDFEKKTKGRGPFEGELPLSLACTNOLOIYKFLLONSMOTADISARBSVGTIVYHAL	2922
Oy	253	VMSDNSAENIALVTSMDGLQAGARCLPVOLEDIRNLQDITPLPLAKKEGTIELFHR	3112
Db	293	VEVADNTADNKRFTYSWNETLILIGALHPTLKKEBLTNKKGMPTPLAAGTGKIGVLAY	3522
Oy	313	ILOREFS--GLSHLSRKTEKCYCPRVAVSYLDASVDSCEBNSVLELIAF--HCKSPHRHR	3699
Db	353	ILOREIOPECRHLSRKTEEMAPVSHSYLSDCIDCTCKNSVLEVIYASSSETPRKD	4122
Oy	370	MVLEPRLKLLQAAKMDLLIP--FELNFCNLIVYEFTAAVAHOPPLKQQAAPHKAE-V	4272
Db	413	MLIVELPRLLLQDKMDRVKRIEFLFNELVLYCLYHIIITMAAYIPV---DGLPEFKMEKT	4699
Oy	428	GNSMLLTGCHLILLLGGIYLLVGLQVLFWRHRHVFIMISFDISYFEILFLFOALLTVVSQVL	4872
Db	470	GQDYRVATGEILSYLGVGYFFFRGQIOYFLORRPSKTLFVDSYSEMLFLOSTELMATVVL	5299
Oy	488	CEFLAIEWPLLVASALVGLNLLYYRGRPHGHSIVMLOKYLIRPLRLEFLLIYVLEIF	5472
Db	530	KFSHKEVYASBMVSLALGWTNMLYYTRGRDQMGITAMVTEKMLIRPLRCFMEFYIYFLR	5699
Oy	548	GPAVALVSLSOEA-----WRPEAPGPNATESVOPMEGDEGNGAQRGIL	5942
Db	590	GFSTAVAVLLIEDGKNDLSLPSESTSHRRGPRCAPRPPS-----YNSLY	6322
Oy	595	EASLELEFETTGMEKLAPQODLHGRGAVLLLLAYVLLTYTLNMLIALMSETVSVAT	6542
Db	633	STCELELEFETTGMDLETEVYDKAVFILLLAVYLLTYTLNMLIALMGEVYNIAO	6922
Oy	655	DSWSIWLQAKAI SVLEMEENGMYMC--RRKORAGVWLVTGTRPDGSPDERMCFRVEEVMAAS	7133
Db	693	ESKNIMKQRAITILIDPEKPSFLKMRKAPRSGKRLQGYTTPDGDGDYDRMCFRVDENVMTJ	7522
Oy	714	WEQTLPTLCEDPSCA--GVPRLENPVLASPKEDDGDGASENTPVQOLQ	7622
Db	753	WNTVANGINEDPGNCEGVKRTLSLSLSS-----RVSGRHKMNKALVPLLR	7982

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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0.c
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/197,636
FILING DATE: 23-NOV-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 9805137.8
FILING DATE: 12-MAR-1998
APPLICATION NUMBER: UK 9815791.0
FILING DATE: 21-JUL-1998
APPLICATION NUMBER: UK 9819278.4
FILING DATE: 03-SEP-1998
ATTORNEY/AGENT INFORMATION:
NAME: Prestia, Paul F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-30075
TELECOMMUNICATION INFORMATION:
TELEPHONE: 601-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 839 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-197-636-8

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Query Match	41.1%;	Score 1644.5;	DB 4;	Length 839;
Best Local Similarity	48.5%;	Pred. No. 1.1e-146;		
Matches 344;	Conservative 121;	Mismatches 200;	Indels 45;	Gaps 11

QY	548	GFAVALVLSOEA-----MRPEAPPTGNATESVOPMEGODEGNGAOYRGIL	594
QY	548	GFAVALVLSOEA-----MRPEAPPTGNATESVOPMEGODEGNGAOYRGIL	594
Db	590	GFSFAVVTLLIEDCKNDLSPESESTSHRMGRGACRPDDSS-----YNSLY	632
QY	595	EASLEFEFTTGMGELAQEOBULHGRVYLLLLAVLLTYLLLMALMSERVNSVAT	654
Db	633	STCELEFEFTTGMGDELFEFTENYDFRAVFIILLLLVYLLTYLLLMALMGFTVKNKAQ	692
QY	655	DWSIMTKLOKASIVLEMENGYWMC-RKKORAGVMALVTGTRDGSDEPDEMCPRVEVNMAS	713
Db	693	ESKNIMTKORATITLLDTKSFLLKCMKRAFRRSGKLLQVYTTDGDADDYMCRRVDEVMNTT	752
QY	714	WEQTLPLCEDPSGA-GVPTLLENPVLASPKPEDEGASEENVVOLLQ	762
Db	753	WNTVGINEDPNCNCEGVKRTLSFSLRSS-----RVSGRHMKNFALVPLLR	798
RESULT	2		
US-09-197-636-8			
Sequence 8, Application US/09197636			
Patent No. 6239267			
GENERAL INFORMATION:			
APPLICANT: DUCKWORTH, DAVID			
APPLICANT: HAYES, PHILIP			
APPLICANT: MEADOWS, HELEN			
APPLICANT: DAVIS, JOHN			
TITLE OF INVENTION: NOVEL COMPOUNDS			
NUMBER OF SEQUENCES: 8			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Ratner & Prestia			
STREET: P.O. Box 980			
CITY: Valley Forge			
STATE: PA			
COUNTRY: US			
ZIP: 19482-0980			
QY	74	EDRRLRLEAVNARSRGVPELDACLPETLSTSVYLLDSETEGTEGTCJMKRVYLLXQGVNA	133
Db	113	YDRSITFEAQAONNCQLESLLFLOKSKKHILDNKEDPTEGTCTCLKMYLLHGOQNT	172
QY	134	CILPLQIDRDSGNPOPLVNAOCTDDYVYRGHSALHIAIEKRSLOQCYKLLVENGANYHARA	193
Db	173	TIPRLTIAAQOTSLKELVNASYDSYKQOTPLAHIAIEBRNNALVYLLLVENADADVOAAA	232
QY	194	CGRFQKOGG-TCFYPEEPLSLAACCKOMQDVVSYLLENHOPASLOATPOSGNTVHAL	252
Db	233	HGDFFKTKRPGFIEGELPLSLAAGCTNOLGCIYKFLONSNWOTADISARDSVGNITVHAL	292
QY	253	VMSIDNSAENIALVTSWYDGLLOAGARLCPYVOLLIEDIRLODTLPKLAKEGKIEIFRH	312
Db	293	VEVADNTADNTKFEVTSWYNEILLIGALHPETLKLEELTNKGMPTPLAAGTGKIGVLAY	352
QY	313	ILQREFS--GLSHLSKRTFMCYGPVAVSLYXDASVDSCEENVSLTELAR-HKSPHRHR	369
Db	353	ILQREIQEPCRHLSRKREFTTMAVGPVHSSLYDLSCTIDTCERNSVLEVIASSETPNRHD	412
QY	370	MVYLEPLNKLLOAKMDLILPK-FELNFCMLIYMFIFTAAVYHOPTLKROAHLKAE-V	427
Db	413	MLLYEPLNRLLODKMDREFAVRIEYFNPFLVYCLMIIFTMAAYRPV---DGLPRFMEMET	469
QY	428	GNSMLLTGHLILLGIIYLLVGOULFTMRKRVYTWISFIDSYEILLFLOALLTVVSOYL	487
Db	470	GDFYFRYVGEILLVAGYFFFRGIOYFLORRSPMKTLFVDSYSEMLFFLOSLTMLATVYL	529
QY	488	CPLAIEWYLLPLVSALVGLWNLNLYTTRGROHNGISVMTOKYILDLRLELLIVLVEFL	547
Db	530	YFSHLKREYVAMWFSALAGMTNMLYTRRGQONGIYAVMIETKMLILDLCKFMFYVYVFLF	569
QY	548	GFAVALVLSOEA-----MRPEAPPTGNATESVOPMEGODEGNGAOYRGIL	594
Db	590	GFSFAVVTLLIEDCKNDLSPESESTSHRMGRGACRPDDSS-----YNSLY	632

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0Y      595 EASLEFKTIMGELAFEOQLHFRGMVLLLAAYLLTYILLNLMLMSTWVSAT 654
        ||| | | | | | | | | | | : : : : : ||| | | | | | | | | | | | |
Db      633 SICHLEFKTTICMGIDLEFENYDFKAVFTILLLAYILTYILLNLTLMGETVNIAQ 692
        ||| | | | | | | | | | | : : : : : ||| | | | | | | | | | | | |
0Y      655 DSWSIWKLOKATSVLEMENGVMWC--RKKORAGVMLTVGTRPGDSPDERMCFREEYNMAS 713
        : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      693 EKSNIMWIKLQRAITIIDTEKSFCLKMKRKARSRGLQVGTYTPDGSKXDYRNCFRDEVNMTT 752
        ||| | | | | | | | | | | : | : | : | : | : | : | : | : | : | : |
0Y      714 WQOTPLCEDPSGA-GVPRTLENPYLASPPKEDEDGASEENVVPOLLQ 762
        : | : | : | | | | | | | : | : | : | : | : | : | : | : | : | : |
Db      753 WNTNVGIINEDPGNCEGVKRTLSFSLRSS----RVSGRMKNFALVPLIR 798
        : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

RESULT      3
US-09-197-636-4
; Sequence 4, Application US/09197636
; Patent No. 6239267
; GENERAL INFORMATION:
; APPLICANT: DUCKWORTH, DAVID
; APPLICANT: HAYES, PHILIP
; APPLICANT: MEADOWS, HELEN
; APPLICANT: DAVIS, JOHN
; TITLE OF INVENTION: NOVEL COMPOUNDS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ratner & Prestia
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: US
; ZIP: 19482-0980
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/197_636
FILING DATE: 23-NOV-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 9805137.8
FILING DATE: 12-MAR-1998
APPLICATION NUMBER: UK 9815791.0
FILING DATE: 21-JUL-1998
APPLICATION NUMBER: UK 9819278.4
FILING DATE: 03-SEP-1998
ATTORNEY/AGENT INFORMATION:
NAME: Prestia, Paul F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-30075
TELECOMMUNICATION INFORMATION:
TELEPHONE: 601-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 839 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-197-636-4
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Query Match	40.9%	Score 1638.5	DB 4	Length 839
Best Local Similarity	48.3%	Pred. No. 4.2e-146		
Matches 343	Conservative 121	Mismatches 201	Indels 45	Gaps 11
Qy	74	FDRODLFPAANSQGVEDLAGLPETYSKRSKYLTDSEYTGSGTKCLMKAVLNLDGVNA	133	
Db	113	YDRNSIFEVAAQNNCCDESLFLFQKSRKHATDNEFKDPETGKCLLKAMLNLDGQNT	172	

Oy	134	CIPPLQIDROSQNPQPLVNAQCIDXDYYRGSALHIAIEKRSLOQVLLVYENANVHARA	1939
Db	173	TPPLLELTAARQDTSUKELVYNAAXYDXKKGGQTAHIAIEERNMALVTLVLVNGCADVQAAA	2322
Oy	194	CGRFFQKQGG--TCEFGELPLSLACTFQWQOVVSYSLLLENPHQASLOATQOSQNTVHAL	2522
Db	223	HGDFEKKTKRGPRGYFEGSLPLSLAAGTINQDQIVAFELLONSQMTDIASRQSVGNTVHAL	2922
Oy	253	VMSIDNSAENIALVTSMDGLLOGARLCPVQLEDIRNLQDLPKLAKKEGKIEIFRH	3122
Db	293	VEVADNTADNKRFPYTSMNELLILGAKLHPKLKEELTNKKGMPLALAAGTGKIGVLAY	3522
Oy	313	ILOREFS--GLSHSRKTEKCYQPVRSVLSLQDVLASVQSCENSVLEIIAF--HCKSPHRH	3699
Db	353	ILQRIQIOPBCHRLSRKTTENAYQPHSSLDLSCIDTCENSVLEIYAIASSETPPRRHD	4122
Oy	370	MVLEPLPLKLLQAKMDLLIPK--PFLNPLCNLIYMEIFTAAVAYHQPTVKAQAAPLKAE-V	4277
Db	413	MLVEPLPLRLLODKMDREVRKRIEFPNFNVLGYCLMIFETMAAYRPV---DGLPFFKMEKT	4699
Oy	428	GNSMLTGHILLIGGTYLLVQGLMYFMRKRVFTWISFIDSYFELIFLFOALLTVSSQVL	4877
Db	470	GQYRVYVGEILLVJAGVYFFFRGGIQYFLQRRPMSKTFVQVSYSEMLFQSLFEMALVVL	5299
Oy	488	CFLAIEWTLPLVSAALVGLMNLLYYRGFOHTQISYMSLOKTVLLRDLRFLLLYVFLF	5477
Db	530	YFSHKEVYASWVFSIALGMVNMLYYRGFOQMOIYAVMIEKMLTRDLCKFMFYIYVLF	5899
Oy	548	GPAVALVSLSOEA-----WRPEAPGPNATESVQPMQEGQDEGNGAQYRGIL	5944
Db	590	GFSTAVVYLLIEDGKNDSLPESESTSHRMGPRACRPDSS-----YNSLY	6322
Oy	595	EASLELFEFTIGMELKFAQEOBLHRCGAVLLLLAYVLTYLILNMLIALMSETVSVAT	6544
Db	633	STCELEFETTGKMGDLETTENDYDKAFAFILLLYVLTLYILLNMLIALMGFTVNTAQ	6522
Oy	655	DSWSITWLOKALISYLEMENGWYMC--RKKQAGVALLVGTGRKDGSPDERMCFRVEEYVMA	7133
Db	693	ESKNIMWLORAITILIDHEKSFLLCKMRKAFRSGKLLQYGYTPDGDQDGYRWCMEFRDEVWMT	7522
Oy	714	WEQTLPLTLCDEPSGA--CVPRITLBNPVVLASPKBEDDGAASENYPVQQLQ	7627
Db	753	WNTVNGIINEDPGNCEGVKRTLSLSS-----RVSGRHMKNFALVPLLR	7987

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RESULT 4
US-09-172-977-4
Sequence 4, Application US/09172977
Patent No. 5989863
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Guegler, Karl J.
APPLICANT: Corley, Neil C.
APPLICANT: Yue, Henry
TITLE OF INVENTION: HUMAN ANKYRIN FAMILY PROTEIN
FILE REFERENCE: PF-0615 US
CURRENT APPLICATION NUMBER: US/09/172, 977
CURRENT FILING DATE: 1998-10-14
NUMBER OF SEQ. ID NOS: 4
SOFTWARE: PERL Program
SEQ ID NO 4
LENGTH: 1839
TYPE: PR1
ORGANISM: Homo sapiens
FEATURE: -
OTHER INFORMATION: 929491
US-09-172-977-4

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Query Match	3.8%;	Score 151;	DB 2;	Length 1839;
Best Local Similarity	27.3%;	Pred. No. 6.9e-05;		
Matches	88;	Conservative 46;	Mismatches 96;	Indels 92;
				Gaps 19;

RESULT 6
US-09-172-977-3
Sequence 3, Application US/09129777
Patent No. 5985863
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Gugler, Karl J.
APPLICANT: Corley, Neil C.

Query Match	3.68;	Score 146;	DB 4;	Length 1095;
Best Local Similarity	17.88;	Pred. No. 9.1e-05;		
Matches 151;	Conservative 126;	Mismatches 215;	Indels 354;	Gaps 40;

Matches 59: Conservative 33: Mismatches 94: Indole 59: Cacc 94:

5-08-847-429A-33

CURRENT APPLICATION DATA:

Matches	59:	Conservative	33:	Mismatches	84:	Indels	59:	Gaps	9:
Best Local Similarity	23.16,	Filed NO:	0:00057,						

5-09-065-474-33

TELECOMMUNICATION INFORMATION:

TELEPHONE: 970/493-7272
 TELEFAX: 970/484-9505
 INFORMATION FOR SEQ ID NO: 33:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1745 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-065-474-33

Query Match 3.5%; Score 138.5; DB 3; Length 1745;
 Best Local Similarity 25.1%; Pred. No. 0.00097;
 Matches 59; Conservative 33; Mismatches 84; Indels 59; Gaps 9;

QY 167 LHAIIEKRSLOCVKLVENGAVHARACGRFQKGGCTFYTGELPLSLAACKTQMDVVS 226
 DB 582 LHVAAHYNDKVALLLLENGASAAAKN-----GYPLHIAAKNMDIAS 628
 QY 227 YLENDPHOPASLOATDSOGNTVLHAIWMISDMSAENIALVTSMDLLOAGARLCPTVOL 286
 DB 629 TLL-----HYKANNMSEKAGFTPLH--LAQEGHREMAAL-----LIENGAKVGAQAR- 675
 QY 287 EDIRNLQDITPLKLAKEGKIEIFRHIIQREFS-----GLSHLSRKF 328
 DB 676 -----NGLTPLMHLCAQEDRVASVAELVYKEMNAIDPKTAGYTPLHACHFGQINNVRL 729
 QY 329 TEMCGPVRVSLXLDASVDSCEE-----NSVLEIIAFCKSPHRRRMVLEPLN 377
 DB 730 IE--HG-ARVSVITRASVYPLHQAQOGHNSVRYLLEHGASPNVHTSTGQITPLS 781

RESULT 12

US-08-623-679-9
 Sequence 9, Application US/08623679
 Patent No. 5674739

GENERAL INFORMATION:
 APPLICANT: Shyjan, Andrew W.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
 TITLE OF INVENTION: DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02110-2804

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/623,679
 FILING DATE: 29-MAR-1996
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/412,431
 FILING DATE: 29-MAR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Fasse, J. Peter
 REGISTRATION NUMBER: 32,983
 REFERENCE/DOCKET NUMBER: 07334/004001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 TELEX: 200154

INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1533 amino acids
 TYPE: amino acid

TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-623-679-9

Query Match 3.4%; Score 137; DB 1; Length 1533;
 Best Local Similarity 19.9%; Pred. No. 0.0011;
 Matches 101; Conservative 88; Mismatches 180; Indels 138; Gaps 22;

QY 208 FGEPLSLAACKTQMD-----VSTLENDPHOPASLOATDSOGNTVLHAIWMISDMSAE 261
 DB 606 FQGLALELDDOSKHDQIAMKLTLEYELKNWSNSTLK-----LAVAAKND 652
 QY 262 NIA-----LVTSMDGLQ-----AGARLCPTVOLEDIRLQDITPLKLAKEG 305
 DB 653 FIATHCOSQMLTDDMMGRIRMRKNPGLKAYIMGILLPITLLEFRYYD----- 701
 QY 306 KIEIFRHIIQREFSGLSHSRKFTEWCYGPVRVSLDASVDSCEANSVLEIIAFCKSP 365
 DB 702 -----FSYQSKENEDGKEKEENTD-----ANNDAGSRKGDENE----- 737
 QY 366 HHRMRYLEPLNKLQAKNDLIPKFLNLCNLIYMFITAVAYHQPLKKQAPHLKA 425
 DB 738 HKRORSI--PIGTKICEFYNAPIVKWFYITISYLGILLFNVIYI-----LVRMDGWPISLOE 791
 QY 426 EYGNSSLTGHILILGITYLLY-----GOLWYFWRHVRHVTWISFIDYPEI-----LF 474
 DB 792 WIVISIVS-----LALEKREILMSEPKL-----SOKIYV--LOEYNNITDVAISIF 840
 QY 475 LFOALLTVVSQ-----VLCEFLAIEWYLPPLVSLVGLMNLVYTRGFQHTGIYSV 526
 DB 841 MIGAILRLQNOPYMGYGRVYICVDIFWYIRVLD--IFG-VN-----KYLGPYVM 888
 QY 527 IOKVILRDLRLIYLVPLFGFAVALVLSQEAHREAPTPGNATESVOPEGODEBN 586
 DB 889 ICKMTI-DMLYFVIMLVLMMSGVARQAILHPEEKPSKLARNIIFYPMYV----- 939
 QY 587 GAQYRIGLEASLELEFKFTIG--NGELAFQEO-----LHFRGMVLLLAVALVLYILL 637
 DB 940 --IYGEVFPDQIDLYAMEINPQGENLYDEBGRRLPCLIPGAMLTALMACYILVANILL 997

RESULT 13

US-08-933-774-9
 Sequence 9, Application US/08933774A
 Patent No. 6025137

GENERAL INFORMATION:
 APPLICANT: Shyjan, Andrew W.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION
 TITLE OF INVENTION: AND TREATMENT OF TUMOR PROGRESSION
 FILE REFERENCE: 07334/004003
 CURRENT APPLICATION NUMBER: US/08/933,774A

CURRENT FILING DATE: 1997-09-19
 EARLIER APPLICATION NUMBER: US 08/623,679
 EARLIER FILING DATE: 1996-03-29
 EARLIER APPLICATION NUMBER: US 08/412,431
 EARLIER FILING DATE: 1995-03-29
 NUMBER OF SEQ ID NOS: 10
 SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 9
 LENGTH: 1533
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-08-933-774-9

Query Match 3.4%; Score 137; DB 3; Length 1533;
 Best Local Similarity 19.9%; Pred. No. 0.0011;
 Matches 101; Conservative 88; Mismatches 180; Indels 138; Gaps 22;

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